## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Currently Amended) A compound of Formula (I), the racemic-diastereomeric mixtures, optical isomers or pharmaceutically-acceptable salts thereof,

wherein:

$$\begin{array}{c} R_{a} \xrightarrow{G_{1}} (J_{1})_{a} \\ D_{1} & 1 \xrightarrow{L_{1}} L_{1} \\ R_{1} \text{ is} \end{array}$$

where  $Z^{100}$  is or a group optionally substituted with  $R_b$  selected from the group consisting of cycloalkyl, naphthyl, tetrahydronaphthyl, benzothienyl, furanyl,

N S N O thiazolyl

thienyl, benzoxazolyl, benzothiazolyl,

benzofuranyl, 2,3-dihydrobenzofuranyl, indolyl, isoxazolyl, tetrahydropyranyl, tetrahydrofuranyl, piperidinyl, pyrazolyl, pyrrolyl, oxazolyl, isothiazolyl, oxadiazolyl, thiadiazolyl, indolinyl, indazolyl, benzoisothiazolyl, pyrido-oxazolyl, pyrido-thiazolyl, pyrimido-oxazolyl, pyrimido-thiazolyl and benzimidazolyl;

 $Z^{110}$  is a covalent bond, or an optionally substituted (C<sub>1</sub>-C<sub>6</sub>) which is optionally substituted with one or more substituents selected from the group consisting of alkyl, CN, OH, halogen, NO<sub>2</sub>, COOH, substituted or unsubstituted amino and substituted or unsubstituted phenyl;

Art Unit: 1624

 $Z^{111}$  is a covalent bond, an optionally substituted ( $C_1$ - $C_6$ ) or an optionally substituted -  $(CH_2)_n$ -cycloalkyl- $(CH_2)_n$ -; where the optionally substituted groups are optionally substituted with one or more substituents selected from the group consisting of alkyl, CN, OH, halogen, NO<sub>2</sub>, COOH, substituted or unsubstituted amino and substituted or unsubstituted phenyl;

 $R_a$  and  $R_{1\underline{b}}$  each represent one or more substituents for each occurrence independently selected from the group consisting of hydrogen, halogen, -CN, -NO<sub>2</sub>, -C(O)OH, -C(O)H, -OH, -C(O)O-alkyl, substituted or unsubstituted carboxamido, tetrazolyl, trifluoromethylcarbonylamino, trifluoromethylsulfonamido, substituted or unsubstituted alkyl, substituted or unsubstituted aryl, substituted or unsubstituted aryl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryloxy, substituted or unsubstituted arylalkyl, substituted or unsubstituted alkynyl, substituted or unsubstituted amino, substituted or unsubstituted aminoalkyl, substituted or unsubstituted arylalkyl, substituted aminoalkyl, substituted or unsubstituted aminoalkyl, substituted or unsubstituted arylalkyl, substituted aminoalkyl, substituted or unsubstituted or unsubstituted aminoalkyl, substituted or unsubstituted or unsubstituted aminoalkyl, substituted or

where  $R_c$  for each occurrence is independently hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted aryl,  $-CH_2-NR_dR_e$ ,  $-W-(CH_2)_t-NR_dR_e$ ,  $-W-(CH_2)_t-CH_2$ ,  $-W-(CH_2)_t-CH_2$ .

 $Z^{105}$  for each occurrence is independently a covalent bond or  $(C_1-C_6)$ ;  $Z^{200}$  for each occurrence is independently a substituted or unsubstituted  $(C_1-C_6)$ , substituted or unsubstituted phenyl or substituted or unsubstituted - $(C_1-C_6)$ -phenyl;

 $R_d$  and  $R_e$  for each occurrence are independently H, alkyl, alkanoyl or  $SO_2$ -alkyl; or  $R_d$ ,  $R_e$  and the nitrogen atom to which they are attached together form a five or six membered heterocyclic pyridyl, pyrazolyl, isoxazolyl, thiadiazolyl, oxadiazolyl, furanyl, pyrrolyl, imidazolyl, pyrazolyl, triazolyl, pyrimdinyl, pyrazinyl, thiazolyl, isothiazolyl, oxazolyl or tetrazolyl ring; t for each occurrence is independently an integer from 2 to 6; W for each occurrence is independently a direct bond or O, S, S(O), S(O)<sub>2</sub>, or NR<sub>f</sub>, wherein R<sub>f</sub> for each occurrence is independently H or alkyl;

or  $R_1$  is a substituted or unsubstituted carbocyclic, or heterocyclic ring thienyl, pyridyl, pyrazolyl, isoxazolyl, thiadiazolyl, oxadiazolyl, indazolyl, furanyl, pyrrolyl, imidazolyl,

pyrazolyl, triazolyl, pyrimdinyl, pyrazinyl, thiazolyl, isothiazolyl, oxazolyl, tetrazolyl, benzo[b]thienyl, benzimidazolyl, benzoxazolyl, benzothiazolyl, benzothiadiazolyl, benzothiad

R<sub>3</sub> is hydrogen, hydroxy, substituted or unsubstituted alkyl or substituted or unsubstituted alkoxy;

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A is -O-; -S-; -S(O)<sub>p</sub>-; -N(R)-; -N(C(O)OR)-; -N(C(O)R)-; -N(SO<sub>2</sub>R)-; -CH<sub>2</sub>O-; -CH<sub>2</sub>S-; -CH<sub>2</sub>N(R)-; -CH(NR)-; -CH<sub>2</sub>N(C(O)R))-; -CH<sub>2</sub>N(C(O)OR)-; -CH<sub>2</sub>N(SO<sub>2</sub>R)-; -CH(NHR)-; -CH(NHC(O)R)-; -CH(NHSO<sub>2</sub>R)-; -CH(NHC(O)OR)-; -CH(OC(O)R)-; -CH(OC(O)NHR); -CH=CH-; -C(=NOR)-; -C(O)-; -CH(OR)-; -C(O)N(R)-; -N(R)C(O)-; -N(R)S(O)<sub>p</sub>-; -OC(O)N(R)-; ; -N(R)-C(O)-(CH<sub>2</sub>)<sub>n</sub>-N(R)-, -N(R)C(O)O-; -N(R)-(CH<sub>2</sub>)<sub>n+1</sub>-C(O)-, -S(O)<sub>p</sub>N(R)-; -O-(CR<sub>2</sub>)<sub>n+1</sub>-C(O)-, -O-(CR<sub>2</sub>)<sub>n+1</sub>-O-, -N(C(O)R)S(O)<sub>p</sub>-; -N(R)S(O)<sub>p</sub>N(R)-; -N(R)C(O)-(CH<sub>2</sub>)<sub>n</sub>-O-, -C(O)N(R)C(O)-; -S(O)<sub>p</sub>N(R)C(O)-; -OS(O)<sub>p</sub>N(R)-; -N(R)S(O)<sub>p</sub>O-; -N(R)S(O)<sub>p</sub>C(O)-; -SO<sub>p</sub>N(C(O)R)-; -N(R)SO<sub>p</sub>N(R)-; -C(O)O-; -N(R)P(OR<sub>g</sub>)O-; -N(R)P(OR<sub>g</sub>)-; -N(R)P(O)(OR<sub>g</sub>)-; -N(R)P(O)(OR<sub>g</sub>)-; -N(C(O)R)P(OR<sub>g</sub>)-; -N(C(O)R)P(OR<sub>g</sub>)-; -N(C(O)R)P(OR<sub>g</sub>)-; -N(C(O)R)P(OR<sub>g</sub>)-;
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where R for each occurrence is independently H, substituted or unsubstituted alkyl, substituted or unsubstituted arylalkyl or substituted or unsubstituted aryl;

 $R_{g}$  for each occurrence is independently H, substituted or unsubstituted alkyl, substituted or unsubstituted arylalkyl, substituted or unsubstituted cycloalkyl or substituted or unsubstituted aryl;

p is 1 or 2;

or in a phosphorus containing group, the nitrogen atom, the phosphorus atom, R and R<sub>g</sub> together form a <u>pyridyl</u>, <u>pyrazolyl</u>, <u>isoxazolyl</u>, <u>thiadiazolyl</u>, <u>oxadiazolyl</u>, <u>furanyl</u>, <u>pyrrolyl</u>, <u>imidazolyl</u>, <u>pyrazolyl</u>, <u>triazolyl</u>, <u>pyrimdinyl</u>, <u>pyrazinyl</u>, <u>thiazolyl</u>, <u>isothiazolyl</u>, <u>oxazolyl</u> or <u>tetrazolyl</u> ring; or

A is NRSO<sub>2</sub> and R, R<sub>a</sub> and the nitrogen atom together form a substituted or

unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted or unsubst

 $R_2$  is  $-Z^{101}-Z^{102}$ ;

 $Z^{101}$  is a covalent bond, -(C<sub>1</sub>-C<sub>6</sub>)-, -(C<sub>1</sub>-C<sub>6</sub>)-O-, -(C<sub>1</sub>-C<sub>6</sub>)-C(O)-, -(C<sub>1</sub>-C<sub>6</sub>)-C(O)O-, -(C<sub>1</sub>-C<sub>6</sub>)-C(O)O-, -(C<sub>1</sub>-C<sub>6</sub>)-C(O)O-N((C<sub>1</sub>-C<sub>6</sub>))- or a substituted or unsubstituted phenyl group;

Z<sup>102</sup> is hydrogen, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted, saturated or unsaturated heterocyclic group thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted tetrazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzodiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted tetrahydroindolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline substituted or unsubstituted purinyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl, substituted or unsubstituted pyrazolo[3,4-d]pyrimidinyl or their Noxides, or a substituted or unsubstituted, saturated or unsaturated heterobicyclic group;

said substituted heterocyclic thienyl, substituted pyridyl, substituted pyrazolyl, substituted indazolyl, substituted indazolyl, substituted indazolyl, substituted indazolyl,

> substituted furanyl, substituted pyrrolyl, substituted imidazolyl, substituted pyrazolyl, substituted triazolyl, substituted pyrimdinyl, substituted pyrazinyl, substituted thiazolyl, substituted or isothiazolyl, substituted oxazolyl, substituted etrazolyl, substituted benzo[b]thienyl, substituted benzimidazolyl, substituted benzoxazolyl, substituted benzothiazolyl, substituted benzothiadiazolyl, substituted benzodiazolyl, substituted indolyl, substituted tetrahydroindolyl, substituted azaindolyl, substituted indazolyl, substituted quinolinyl, substituted imidazopyridinyl, substituted quinazoline substituted purinyl, substituted pyrrolo[2,3-d]pyrimidinyl, substituted pyrazolo[3,4-d]pyrimidinyl or substituted heterobicyclic group having one or more substituents each independently selected from the group consisting of hydroxyl, cyano, substituted or unsubstituted alkoxy, substituted or unsubstituted sulfonamido, substituted or unsubstituted ureido, substituted or unsubstituted carboxamido; substituted or unsubstituted amino, oxo, a saturated, unsaturated or aromatic, substituted or unsubstituted heterocyclic group comprising one or more nitrogen atoms, one or more oxygen atoms or a combination thereofthienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted tetrazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzodiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted tetrahydroindolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl, substituted or unsubstituted pyrazolo[3,4-d]pyrimidinyl or their N-oxides;

wherein said nitrogen atoms are independently optionally substituted by a substituted or unsubstituted alkyl, substituted or unsubstituted arylaryl group; or

R<sub>2</sub> is of the formula B-E, wherein B is a substituted or unsubstituted cycloalkyl, substituted or unsubstituted armino, substituted or unsubstituted amino, substituted or unsubstituted aminoalkylsulfonyl, substituted or unsubstituted alkoxyalkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted aminoalkylcarbonyl, hydroxy, substituted or unsubstituted alkylene, substituted or unsubstituted aminoalkyl, substituted or unsubstituted alkylenecarbonyl or substituted or unsubstituted aminoalkylcarbonyl group; and E is substituted or unsubstituted azacycloalkyl, substituted or unsubstituted azacycloalkylsulfonyl, substituted or unsubstituted azacycloalkylalkyl, substituted or unsubstituted heteroaryl, substituted or unsubstituted heteroarylsulfonyl, substituted or unsubstituted heteroarylsulfonyl, substituted or unsubstituted heteroarylsulfonyl, substituted or unsubstituted heteroarylsulfonyl, substituted or unsubstituted heteroarylcarbonylamino or substituted or unsubstituted aryl;

- a is 1 and  $D_1$ ,  $G_1$ ,  $J_1$ ,  $L_1$  and  $M_1$  are each independently selected from the group consisting of  $CR_a$  and N, provided that at least two of  $D_1$ ,  $G_1$ ,  $J_1$ ,  $L_1$  and  $M_1$  are  $CR_a$ ; or
- a is 0, and one of  $D_1$ ,  $G_1$ ,  $L_1$  and  $M_1$  is  $NR_a$ , one of  $D_1$ ,  $G_1$ ,  $L_1$  and  $M_1$  is  $CR_a$  and the remainder are independently selected from the group consisting of  $CR_a$  and N, wherein  $R_a$  is as defined above;
- b is 1 and D<sub>2</sub>, G<sub>2</sub>, J<sub>2</sub>, L<sub>2</sub> and M<sub>2</sub> are each independently selected from the group consisting of CR<sub>a</sub> and N, provided that at least two of D<sub>2</sub>, G<sub>2</sub>, J<sub>2</sub>, L<sub>2</sub> and M<sub>2</sub> are CR<sub>a</sub>; or
- b is 0, and one of D<sub>2</sub>, G<sub>2</sub>, L<sub>2</sub> and M<sub>2</sub> is NR<sub>a</sub>, one of D<sub>2</sub>, G<sub>2</sub>, L<sub>2</sub> and M<sub>2</sub> is CR<sub>a</sub> and the remainder are independently selected from the group consisting of CR<sub>a</sub> and N, wherein R<sub>a</sub> is as defined above; and
- n for each occurrence is independently an integer from 0 to 6;

  wherein the substituents for R<sub>a</sub>, R<sub>b</sub>, R<sub>c</sub>, Z<sup>200</sup>, R<sub>3</sub>, R<sub>1</sub>, Z<sup>101</sup>, Z<sup>102</sup>, B and E, are

  independently selected from the group consisting of alkyl, CF<sub>3</sub>, alkoxy, OCF<sub>3</sub>, halogen,
  hydroxyl, nitro, oxo, CN, COH, COOH, amino, N-alkylamino or N,N-dialkylamino,

esters aryl, aryalkyl, alkyl-O-C(O), alkoxyalkyl, heterocycloalkyl, optionally substituted phenyl, nitro and optionally substituted amino.

- 2. (Original) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>1</sub> for each occurrence is independently selected from the group consisting of F, Cl, Br, I, CH<sub>3</sub>, NO<sub>2</sub>, OCF<sub>3</sub>, OCH<sub>3</sub>, CN, CO<sub>2</sub>CH<sub>3</sub>, CF<sub>3</sub>, -CH<sub>2</sub>NR<sub>d</sub>R<sub>e</sub>, t-butyl, pyridyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted benzyl, substituted or unsubstituted benzenesulfonyl, substituted or unsubstituted phenoxy, substituted or unsubstituted phenyl, substituted or unsubstituted amino, carboxyl, substituted or unsubstituted tetrazolyl, and substituted or unsubstituted styryl.
- 3. (Original) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>a</sub> for each occurrence is independently selected from the group consisting of F, Cl, Br, I, CH<sub>3</sub>, NO<sub>2</sub>, OCF<sub>3</sub>, OCH<sub>3</sub>, CN, CO<sub>2</sub>CH<sub>3</sub>, CF<sub>3</sub>, t-butyl, pyridyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted benzyl, substituted or unsubstituted benzenesulfonyl, substituted or unsubstituted phenoxy, substituted or unsubstituted phenyl, substituted or unsubstituted amino, carboxyl, substituted or unsubstituted tetrazolyl, and substituted or unsubstituted styryl.
- 4. (Original) The compound of Claim 1 wherein  $R_3$  is H;  $R_2$  is of the formula

wherein n is 1, 2 or 3.

5. (Currently Amended) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>2</sub> is of the formula

wherein m is 0, 1, 2 or 3 and

 $R_g$  is H or - $(CH_2)_pN(R_4)R_5$ , wherein p is an integer from 2 to 6 and  $R_4$  and  $R_5$  are each, independently, H, azabicycloalkyl or Y-Z, wherein Y is selected from the group consisting of -C(O)-, - $(CH_2)_q$ -, - $S(O)_2$ -, -C(O)O-, - $SO_2NH$ -, -CONH-, - $(CH_2)_qO$ -, -

 $(CH_2)_qNH$ -, and  $-(CH_2)_qS(O)_r$ -; wherein q is an integer from 0 to 6; and r is 0, 1 or 2; and

> Z is a substituted or unsubstituted moiety selected from the group consisting of alkyl, alkoxy, amino, aryl, heteroaryl and heterocycloalkyl thienyl, pyridyl, pyrazolyl, isoxazolyl, thiadiazolyl, oxadiazolyl, indazolyl, furanyl, pyrrolyl, imidazolyl, pyrazolyl, triazolyl, pyrimdinyl, pyrazinyl, thiazolyl, isothiazolyl, oxazolyl, tetrazolyl, benzo[b]thienyl, benzimidazolyl, benzoxazolyl, benzothiadiazolyl, benzothiadiazolyl, benzodiazolyl, indolyl, tetrahydroindolyl, azaindolyl, indazolyl, quinolinyl, imidazopyridinyl, quinazoline purinyl, pyrrolo[2,3-d]pyrimidinyl, pyrazolo[3,4d]pyrimidinyl or their N-oxides alkyl group or R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom to which they are attached together form a 3, 4, 5, 6 or 7 membered, substituted or unsubstituted heterocyclic, thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted tetrazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzodiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted tetrahydroindolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl, pyrazolo[3,4-d]pyrimidinyl or substituted or unsubstituted heterobicyclic group.

6. (Currently Amended) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>2</sub> is of the formula

$$(CH_2)_a$$
 $(CH_2)_b$ 
 $(CH_2)_b$ 
 $(CH_4R_5)_b$ 

wherein m is 0, 1, 2 or 3 a and b are each, independently, an integer from 0 to 6; Q is  $-OR_6$  or  $-NR_4R_5$ ;

each R<sub>4</sub> and R<sub>5</sub> is, independently, H, azabicycloalkyl or Y-Z, wherein Y is selected from the group consisting of -C(O)-, -(CH<sub>2</sub>)<sub>q</sub>-, -S(O)<sub>2</sub>-, -C(O)O-, -SO<sub>2</sub>NH-, -CONH-, (CH<sub>2</sub>)<sub>q</sub>O-, -(CH<sub>2</sub>)<sub>q</sub>NH-, and -(CH<sub>2</sub>)<sub>q</sub>S(O)<sub>r</sub>-; wherein  $\,q$  is an integer from 0 to 6; and r is 0, 1 or 2; and Z is a substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, amino, aryl, heteroaryl or heterocycloalkyl thienyl alkyl, pyridylalkyl, pyrazolylalkyl, isoxazolylalkyl, thiadiazolylalkyl, oxadiazolylalkyl, indazolylalkyl, furanylalkyl, pyrrolylalkyl, imidazolylalkyl, pyrazolylalkyl, triazolylalkyl, pyrimdinylalkyl, pyrazinylalkyl, thiazolylalkyl, isothiazolylalkyl, oxazolylalkyl, tetrazolylalkyl, benzo[b]thienylalkyl, benzimidazolylalkyl, benzoxazolylalkyl, benzothiazolylalkyl, benzothiadiazolylalkyl, benzodiazolylalkyl, indolylalkyl, tetrahydroindolylalkyl, azaindolylalkyl, indazolylalkyl, quinolinylalkyl, imidazopyridinylalkyl, quinazoline purinylalkyl, pyrrolo[2,3-d]pyrimidinyalkyl l or pyrazolo[3,4-d]pyrimidinylalkyl group or R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom to which they are attached together form a 3, 4, 5, 6 or 7membered, substituted or unsubstituted heterocyclic substituted or unsubstituted thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted <u>imidazolyl</u>, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted

or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted or unsubstituted or unsubstituted benzolyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl, substituted or unsubstituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl, substituted or unsubstituted heterobicyclic group; and

R<sub>6</sub> is hydrogen or a substituted or unsubstituted alkyl group.

7. (Currently Amended) The compound of Claim 1 wherein  $R_3$  is H;  $R_2$  is of the formula

wherein n is 1, 2 or 3; and

R<sub>4</sub> is H, azabicycloalkyl or Y-Z, wherein Y is selected

from the group consisting of -C(O)-, -(CH<sub>2</sub>)<sub>q</sub>-, -S(O)<sub>2</sub>-, -C(O)O-, -SO<sub>2</sub>NH-, -CONH-, (CH<sub>2</sub>)<sub>q</sub>O-, -(CH<sub>2</sub>)<sub>q</sub>NH-, and -(CH<sub>2</sub>)<sub>q</sub>S(O)<sub>r</sub>-; wherein q is an integer 0 to 6; and r is 0, 1 or 2; and Z is a substituted or unsubstituted alkyl, substituted or unsubstituted amino, aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heteroaryl or substituted pyridylalkyl, substituted or unsubstituted or unsubstituted pyridylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted o

Art Unit: 1624

triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrrazolo[3,4-d]pyrimidinylalkyl group.

8. (Currently Amended) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>2</sub> is of the formula

$$R_6$$
 $R_5$ 
 $R_5$ 

wherein

m is 0, 1, 2 or 3;

 $R_5$  is H, azabicycloalkyl or Y-Z, wherein Y is selected from the group consisting of a covalent bond, -C(O)-,  $-(CH_2)_{q^-}$ ,  $-S(O)_{2^-}$ , -C(O)O-,  $-SO_2NH$ -, -CONH-,  $-(CH_2)_qO$ -,  $-(CH_2)_qNH$ -,  $-(CH_2)_qC(O)$ -,  $-C(O)(CH_2)_{q^-}$  and  $-(CH_2)_qS(O)_{r^-}$ , where the alkyl portion of  $-(CH_2)_q$ -,  $-(CH_2)_qO$ -,  $-(CH_2)_qNH$ -,  $-(CH_2)_qC(O)$ -,  $-C(O)(CH_2)_q$ - and  $-(CH_2)_qS(O)_r$  is optionally substituted by a halogen, hydroxy or an alkyl group; wherein q is an integer from 0 to 6; and r is 0, 1 or 2; and Z is a substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted alkoxy, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heteroaryl or substituted pyridylalkyl, substituted or

Art Unit: 1624

unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolyl alkyl, substituted or unsubstituted quinolinyl alkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl group; or Y and Z together are a natural or unnatural amino acid, which may be mono- or di-

alkylated at the amine nitrogen; and

R<sub>6</sub> represents one or more substituents each independently selected from the group consisting of hydrogen, hydroxy, oxo, substituted or unsubstituted alkyl, substituted or unsubstituted aryl, substituted or unsubstituted heterocyclylthienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted tetrazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or

unsubstituted benzothiadiazolyl, substituted or unsubstituted benzodiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted tetrahydroindolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinyl, substituted or unsubstituted alkoxycarbonyl, substituted or unsubstituted alkoxyalkyl, substituted or unsubstituted aminocarbonyl, substituted or unsubstituted alkylcarbonyl, substituted or unsubstituted arylcarbonyl, substituted or unsubstituted heterocyclylcarbonyl, substituted or unsubstituted or unsubstituted arylalkyl; provided that the carbon atoms adjacent to the nitrogen atom are not substituted by a hydroxy group.

9. (Currently Amended) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>2</sub> is of the formula

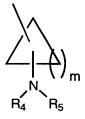
$$\bigvee_{N}$$

wherein R<sub>4</sub> is H, substituted or unsubstituted alkyl, substituted or unsubstituted azabicycloalkyl or Y-Z, wherein Y is selected from the group consisting of -C(O)-, - (CH<sub>2</sub>)<sub>q</sub>-,-S(O)<sub>2</sub>-, -C(O)O-, -SO<sub>2</sub>NH-, -CONH-, -(CH<sub>2</sub>)<sub>q</sub>O-, -(CH<sub>2</sub>)<sub>q</sub>NH-, and - (CH<sub>2</sub>)<sub>q</sub>S(O)<sub>r</sub>-; wherein q is an integer from 0 to 6, and r is 0, 1 or 2; and Z is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted pyridylalkyl, substituted heterocycloalkyl thienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted

Art Unit: 1624

unsubstituted pyrimdinylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzolylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted or unsubsti

10. (Currently Amended) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>2</sub> is of the formula



#### wherein

m is an integer from 1 to 6; and

R<sub>4</sub> and R<sub>5</sub> are each, independently, H, substituted or unsubstituted azabicycloalkyl or Y-Z, wherein Y is selected from the group consisting of -C(O)-, -(CH<sub>2</sub>)<sub>q</sub>-, -S(O)<sub>2</sub>-, -C(O)O-, -SO<sub>2</sub>NH-, -CONH-, -(CH<sub>2</sub>)<sub>q</sub>O-, -(CH<sub>2</sub>)<sub>q</sub>NH-, and -(CH<sub>2</sub>)<sub>q</sub>S(O)<sub>r</sub>-; wherein q is an integer from 0 to 6; and r is 0, 1 or 2; and Z is a substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkyl thienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted pyrro

Art Unit: 1624

unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl group; or  $R_4$ ,  $R_5$  and the nitrogen atom to which they are attached together form a  $\frac{3}{4}$ ,  $\frac{4}{5}$ ,  $\frac{5}{6}$  or  $\frac{7}{4}$ membered, substituted or unsubstituted thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted

R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom to which they are attached together form a 3, 4, 5, 6 or 7 membered, substituted or unsubstituted thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted benzolyl, substituted or unsubstituted benzolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted or unsubstituted or unsubstituted pyrrazolo[2,3-d]pyrimidinyl, substituted or unsubstituted heterobicyclic group.

# 11. (Currently Amended) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>2</sub> is of the formula

### wherein

n is an integer from 0 to 4;

r is 0 and m is an integer from 1 to 6; or

r is 1 and m is an integer from 0 to 6;

Q is  $-OR_6$  or  $-NR_4R_5$ ;

each  $R_4$  and  $R_5$  is, independently, H, substituted or unsubstituted azabicycloalkyl or Y-Z, wherein Y is selected from the group consisting of -C(O)-, -(CH<sub>2</sub>)<sub>a</sub>-,

-S(O)<sub>2</sub>-, -C(O)O-, -SO<sub>2</sub>NH-, -CONH-, -(CH<sub>2</sub>)<sub>q</sub>O-, -(CH<sub>2</sub>)<sub>q</sub>NH-, and -(CH<sub>2</sub>)<sub>q</sub>S(O)<sub>r</sub>-; q is an integer from 0 to 6; and r is 0, 1 or 2; and Z is a substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heteroeycloalkyl thienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted benzimidazolylalkyl, substituted benzolylalkyl, substituted benzimidazolylalkyl, substituted benzimidazolylalkyl,

Art Unit: 1624

benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl group; or R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom to which they are attached together form a substituted or unsubstituted heterocyclic thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted tetrazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzodiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted tetrahydroindolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl, or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinyl group; and

R<sub>6</sub> is hydrogen or a substituted or unsubstituted alkyl group.

12. (Currently Amended) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>2</sub> is of the formula

$$R_6O$$
 $R_6O$ 
 $R_6O$ 
 $R_6O$ 

n is an integer from 0 to 4; m is an integer from 0 to 6;

R<sub>4</sub> is H, substituted or unsubstituted azabicycloalkyl or Y-Z, wherein Y is selected from the group consisting of -C(O)-,  $-(CH_2)_q$ -,  $-S(O)_2$ -, -C(O)O-,  $-SO_2NH$ -, -CONH-, - $(CH_2)_qO$ -,  $-(CH_2)_qNH$ -, and  $-(CH_2)_qS(O)_r$ -; wherein q is an integer from 0 to 6; and r is 0, 1 or 2; and Z is substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkylthienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted

pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl; and

R<sub>6</sub> is hydrogen or a substituted or unsubstituted alkyl group.

13. (Currently Amended) The compound of Claim 10 wherein R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom together form a heterocyclic group of the formula

wherein

together are an oxygen atom; or at least one of R<sub>7</sub> and R<sub>9</sub> is cyano, CONHR<sub>15</sub>, COOR<sub>15</sub>, CH<sub>2</sub>OR<sub>15</sub> or CH<sub>2</sub>NR<sub>15</sub>(R<sub>16</sub>), wherein R<sub>15</sub> and R<sub>16</sub> are each, independently, H, azabicycloalkyl or V-L, wherein V is selected from the group consisting of -C(O)-, - $(CH_2)_{p^-}$ ,  $-S(O)_{2^-}$ ,  $-C(O)O_-$ ,  $-SO_2NH_-$ ,  $-CONH_-$ ,  $(CH_2)_{q}O_-$ , -(CH<sub>2</sub>)<sub>q</sub>NH-, and-(CH<sub>2</sub>)<sub>q</sub>S(O)<sub>r</sub>-; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and L is substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkyl thienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted

benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or

R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, R<sub>13</sub> and R<sub>14</sub> are each, independently, lower alkyl or hydrogen; or

at least one pair of substituents R<sub>7</sub> and R<sub>8</sub>; R<sub>9</sub> and R<sub>10</sub>; R<sub>11</sub> and R<sub>12</sub>; or R<sub>13</sub> and R<sub>14</sub>

> unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl; or R<sub>15</sub>, R<sub>16</sub> and the nitrogen atom together form a 3, 4, 5, 6 or 7 membered, substituted or unsubstituted heterocylic thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted <u>imidazolyl</u>, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted tetrazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzodiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted tetrahydroindolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl, substituted or unsubstituted pyrazolo[3,4-d]pyrimidinyl or a substituted or unsubstituted heterobicyclic group;

X is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, CHOR<sub>17</sub> or NR<sub>17</sub>, wherein R<sub>17</sub> is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted aryl, substituted or unsubstituted arylalkyl,  $-C(NH)NH_2$ ,  $-C(O)R_{17}$ , or  $-C(O)OR_{18}$ , wherein R<sub>18</sub> is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl; and

t is 0 or 1.

14. (Currently Amended) The compound of Claim 10 wherein R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom together form a heterocycle of the formula

$$R_{19}$$
 $R_{20}$ 
 $H_{2}C$ 
 $R_{21}$ 
 $R_{21}$ 

wherein

 $R_{19}$  and  $R_{20}$  are each, independently, hydrogen or lower alkyl; or  $R_{19}$  and  $R_{20}$  together are an oxygen atom;

R<sub>21</sub> and R<sub>22</sub> are each, independently, H, substituted or unsubstituted azabicycloalkyl or

V-L, wherein V is selected from the group consisting of  $-C(O)_{-}$ ,  $-(CH_2)_{0}$ ,  $-S(O)_{2}$ ,  $-C(O)_{0}$ ,  $-SO_{2}NH_{-}$ ,  $-CONH_{-}$ ,  $-(CH_2)_{0}O_{-}$ ,  $-(CH_2)_{0}NH_{-}$ , and  $(CH_2)_0 S(O)_r$ ; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and L is substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkyl thienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted

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or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted or unsubstituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl group; or

R<sub>21</sub>, R<sub>22</sub> and the nitrogen atom together form a 3, 4, 5 or 6-membered, substituted or unsubstituted heterocyclicthienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted tetrazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzodiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted tetrahydroindolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinyl group;

m is an integer from 1 to 6; and n is an integer from 0 to 6.

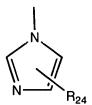
15. The compound of Claim 10 wherein R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom together form a heterocyclic group of the formula

$$\left(\begin{array}{c} I \\ N \\ CH_2 \end{array}\right)_m$$

m is an integer from 1 to 6; and

R<sub>23</sub> is CH<sub>2</sub>OH, NRR', C(O)NRR' or COOR, wherein R and R' are each, independently, hydrogen or substituted or unsubstituted alkyl, substituted or unsubstituted arylalkyl.

16. (Currently Amended) The compound of Claim 10 wherein R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom together form a heterocyclic group of the formula



wherein  $R_{24}$  is substituted or unsubstituted alkyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl, carboxyl, cyano,  $C(O)OR_{25}$ ,  $CH_2OR_{25}$ ,  $CH_2NR_{26}R_{27}$  or  $C(O)NHR_{26}$ , wherein  $R_{25}$  is substituted or unsubstituted alkyl, substituted or unsubstituted aryl, substituted or unsubstituted arylalkyl, substituted or unsubstituted heterocyclic or substituted or unsubstituted heterocycloaryl; and  $R_{26}$  and  $R_{27}$  are each, independently, H, substituted or unsubstituted azabicycloalkyl or V-L, wherein V is selected

from the group consisting of -C(O)-, -(CH<sub>2</sub>)<sub>p</sub>-,-S(O)<sub>2</sub>-, -C(O)O-, -SO<sub>2</sub>NH-, -CONH-, (CH<sub>2</sub>)<sub>q</sub>O-, -(CH<sub>2</sub>)<sub>q</sub>NH-, and-(CH<sub>2</sub>)<sub>q</sub>S(O)<sub>r</sub>-; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and L is substituted or unsubstituted alkyl, substituted or unsubstituted armino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heteroeycloalkylthienylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzolylalkyl, substituted or unsubstituted benzimidazolylalkyl,

> substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinyl lkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl; or R<sub>26</sub>, R<sub>27</sub> and the nitrogen atom together form a 3, 4, 5 or 6 membered, substituted or unsubstituted heterocyclic thienyl, pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted tetrazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzodiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted tetrahydroindolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinyl group.

17. (Original) The compound of Claim 10 wherein at least one of R<sub>4</sub> and R<sub>5</sub> is of the formula Y-Z, wherein Z is of the formula

$$-N$$

T is C(O), S, SO, SO<sub>2</sub>, CHOR or NR, wherein R is hydrogen or a substituted or unsubstituted alkyl, substituted or unsubstituted arylaryl group; and n is 0, 1 or 2.

18. (Currently Amended) The compound of Claim 10 wherein at least one of R<sub>4</sub> and R<sub>5</sub> is of the formula Y-Z, wherein Z is of the formula -N(R<sub>28</sub>)R<sub>29</sub>, wherein R<sub>28</sub> and R<sub>29</sub> are each, independently, substituted or unsubstituted carboxyalkyl, substituted or unsubstituted alkoxycarbonylalkyl, substituted or unsubstituted hydroxyalkyl, substituted or unsubstituted alkylcarbonyl or substituted or unsubstituted cyanoalkyl; or

R<sub>28</sub> and R<sub>29</sub>, together with the nitrogen atom, form a five- or six-membered-substituted or unsubstituted heterocyclic thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyridyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted or u

19. (Currently Amended) The compound of Claim 11 wherein R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom together form a heterocycle of the formula

Art Unit: 1624

 $R_7$ ,  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ ,  $R_{13}$  and  $R_{14}$  are each, independently, lower alkyl or hydrogen; or at least one pair of substituents R<sub>7</sub> and R<sub>8</sub>; R<sub>9</sub> and R<sub>10</sub>; R<sub>11</sub> and R<sub>12</sub>; or R<sub>13</sub> and R<sub>14</sub> together are an oxygen atom; or at least one of R<sub>7</sub> and R<sub>9</sub> is cyano, CONHR<sub>15</sub>, COOR<sub>15</sub>, CH<sub>2</sub>OR<sub>15</sub> or CH<sub>2</sub>NR<sub>15</sub>(R<sub>16</sub>), wherein R<sub>15</sub> and R<sub>16</sub> are each, independently, H, substituted or unsubstituted azabicycloalkyl or V-L, wherein V is selected from the group consisting of -C(O)-,  $-(CH_2)_p$ -,  $-S(O)_2$ -, -C(O)O-, -SO<sub>2</sub>NH-, -CONH-, (CH<sub>2</sub>)<sub>a</sub>O-, -(CH<sub>2</sub>)<sub>a</sub>NH-, and-(CH<sub>2</sub>)<sub>a</sub>S(O)<sub>r</sub>-; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and L is substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkylheterocycloalkylthienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-<u>d]pyrimidinylalkyl</u>; or R<sub>15</sub>, R<sub>16</sub> and the nitrogen atom together form a 3, 4, 5, 6 or 7 membered, substituted or unsubstituted heterocyclic heterocycloalkylthienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or

Art Unit: 1624

unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted tetrazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzimidazolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzodiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted tetrahydroindolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted imidazopyridinyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinyl or heterobicyclic group; X is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, CHOR<sub>17</sub> or NR<sub>17</sub>, wherein R<sub>17</sub> is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted aryl, substituted or unsubstituted arylalkyl, -C(NH)NH<sub>2</sub>, -C(O)R<sub>18</sub>, or -C(O)OR<sub>18</sub>, wherein R<sub>18</sub> is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl; and

t is 0 or 1.

20. (Currently Amended) The compound of Claim 11 wherein R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom together form a heterocycle of the formula

$$R_{19}$$
 $R_{20}$ 
 $H_2C$ 
 $R_{21}$ 
 $R_{21}$ 

wherein

 $R_{19}$  and  $R_{20}$  are each, independently, hydrogen or lower alkyl; or  $R_{19}$  and  $R_{20}$  together are an oxygen atom;

> R<sub>21</sub> and R<sub>22</sub> are each, independently, H, substituted or unsubstituted azabicycloalkyl or V-L, wherein V is selected from the group consisting of -C(O)-,  $-(CH_2)_{p^-}$ ,  $-S(O)_{2^-}$ , - $C(O)O_{-}$ ,  $-SO_{2}NH_{-}$ ,  $-CONH_{-}$ ,  $(CH_{2})_{q}O_{-}$ ,  $-(CH_{2})_{q}NH_{-}$ , and  $-(CH_{2})_{q}S(O)_{r}$ ; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and L is substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkylthienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl group; or R<sub>21</sub>, R<sub>22</sub> and the nitrogen atom together form a 3, 4, 5 or 6-membered, substituted or unsubstituted heterocyclic thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted furanyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or

unsubstituted isothiazolyl, substituted or unsubstituted benzo[b]thienyl, substituted or unsubstituted benzomidazolyl, substituted or unsubstituted benzomidazolyl, substituted or unsubstituted benzomidazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted indolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinazoline purinyl, substituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted pyrrolo[2,3-d]pyrimidinyl or substituted or unsubstituted pyrrazolo[3,4-d]pyrimidinyl group;

m is an integer from 1 to 6; and n is an integer from 0 to 6.

21. (Original) The compound of Claim 11 wherein R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom together form a heterocyclic group of the formula

wherein

m is an integer from 1 to 6; and

R<sub>23</sub> is CH<sub>2</sub>OH, NRR', C(O)NRR' or COOR, wherein R is hydrogen or a substituted or unsubstituted alkyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl group.

22. (Currently Amended) The compound of Claim 11 wherein R<sub>4</sub>, R<sub>5</sub> and the nitrogen atom together form a heterocyclic group of the formula

> wherein R<sub>24</sub> is substituted or unsubstituted alkyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl, carboxyl, cyano, C(O)OR25, CH2OR25, CH<sub>2</sub>NR<sub>26</sub>R<sub>27</sub> or C(O)NHR<sub>26</sub>, wherein R<sub>25</sub> is substituted or unsubstituted alkyl, substituted or unsubstituted aryl, substituted or unsubstituted arylalkyl, substituted or unsubstituted heterocyclic or substituted or unsubstituted heterocycloaryl group; and R<sub>26</sub> and R<sub>27</sub> are each, independently, H, substituted or unsubstituted azabicycloalkyl or V-L, wherein V is selected from the group consisting of -C(O)-, -(CH<sub>2</sub>)<sub>p</sub>-,-S(O)<sub>2</sub>-, -C(O)O-, -SO<sub>2</sub>NH-, -CONH-,  $(CH_2)_0O_{-}$ ,  $-(CH_2)_0NH_{-}$ , and  $-(CH_2)_0S(O)_{r-}$ ; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and L is substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkylthienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl group; or R<sub>26</sub>, R<sub>27</sub> and the nitrogen atom together form a 3, 4, 5 or 6 membered, substituted or unsubstituted heterocyclic heterocycloalkylthienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or

unsubstituted thiadiazolyl, substituted or unsubstituted oxadiazolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted oxazolyl, substituted or unsubstituted benzolyl, substituted or unsubstituted benzolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted or

23. (Original) The compound of Claim 11 wherein at least one of  $R_4$  and  $R_5$  is of the formula Y-Z, wherein Z is of the formula

$$-N$$
 $T$ 
 $R_{32}$ 

wherein

g is 0 or 1;

T is C(O), O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, CHOR<sub>17</sub> or NR<sub>17</sub>, wherein R<sub>17</sub> is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted aryl, substituted or unsubstituted arylalkyl, -C(NH)NH<sub>2</sub>, -C(O)R<sub>18</sub>, or -C(O)OR<sub>18</sub>, wherein R<sub>18</sub> is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl; and

R<sub>32</sub> is hydrogen, cyano, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxycarbonyl, substituted or unsubstituted alkoxyalkyl, substituted or unsubstituted

hydroxyalkyl, substituted or unsubstituted aminocarbonyl, substituted or unsubstituted alkylcarbonyl or substituted or unsubstituted arylalkyl.

24. (Currently Amended) The compound of Claim 11 wherein at least one of R<sub>4</sub> and R<sub>5</sub> is of the formula Y-Z, wherein Z is of the formula -N(R<sub>28</sub>)R<sub>29</sub>, wherein R<sub>28</sub> and R<sub>29</sub> are each, independently, substituted or unsubstituted carboxyalkyl, substituted or unsubstituted alkoxycarbonylalkyl, substituted or unsubstituted hydroxyalkyl, substituted or unsubstituted alkylcarbonyl or substituted or unsubstituted cyanoalkyl; or

R<sub>28</sub> and R<sub>29</sub>, together with the nitrogen atom, form a five—or six—membered substituted or unsubstituted heterocyclic thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyridyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrrolyl, substituted or unsubstituted imidazolyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted or unsubstituted pyrimdinyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted or un

- 25. (Original) The compound of Claim 8 wherein  $R_5$  is Y-Z, wherein Z is of the formula  $N(R_{30})R_{31}$ , wherein  $R_{30}$  and  $R_{31}$  are each, independently, hydrogen, alkyl, alkoxycarbonyl, alkoxyalkyl, hydroxyalkyl, aminocarbonyl, cyano, alkylcarbonyl or arylalkyl.
- 26. (Original) The compound of Claim 8 wherein R<sub>5</sub> is Y-Z, wherein Z is of the formula

wherein

each X is, independently, CH or N; and

R<sub>32</sub> is hydrogen, cyano, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxycarbonyl, substituted or unsubstituted alkoxyalkyl, substituted or unsubstituted

hydroxyalkyl, substituted or unsubstituted aminocarbonyl, substituted or unsubstituted alkylcarbonyl or substituted or unsubstituted arylalkyl group.

27. (Original) The compound of Claim 8 wherein R<sub>5</sub> is Y-Z, wherein Z is of the formula

wherein

g is 0 or 1;

T is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, CHOR<sub>17</sub> or NR<sub>17</sub>, wherein R<sub>17</sub> is hydrogen, substituted or unsubstituted aryl, substituted or unsubstituted arylalkyl, Substituted or unsubstituted arylalkyl, C(O)NH<sub>2</sub>, -C(NH)NH<sub>2</sub>, -C(O)R<sub>17</sub>, or -C(O)OR<sub>18</sub>, wherein R<sub>18</sub> is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted arylalkyl; and

R<sub>32</sub> is hydrogen, cyano, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxycarbonyl, substituted or unsubstituted alkoxyalkyl, substituted or unsubstituted hydroxyalkyl, substituted or unsubstituted aminocarbonyl, substituted or unsubstituted alkylcarbonyl or substituted or unsubstituted arylalkyl group.

28. (Original) The compound of Claim 8 wherein R<sub>5</sub> is Y-Z, wherein Z is of the formula

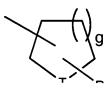
$$N$$
  $g$   $R_{32}$ 

wherein

g is 0, 1 or 2; and

R<sub>32</sub> is hydrogen, cyano, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxycarbonyl, substituted or unsubstituted alkoxyalkyl, substituted or unsubstituted hydroxyalkyl, substituted or unsubstituted aminocarbonyl, substituted or unsubstituted alkylcarbonyl or substituted or unsubstituted arylalkyl group.

29 (Original) The compound of Claim 8 wherein R<sub>5</sub> is Y-Z, wherein Z is of the formula



#### wherein

T is C(O), O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, CHOR<sub>17</sub> or NR<sub>17</sub>, wherein R<sub>17</sub> is hydrogen, substituted or unsubstituted alkyl, aryl, arylalkyl, -C(NH)NH<sub>2</sub>, -C(O)R<sub>18</sub>, or -C(O)OR<sub>18</sub>, wherein R<sub>18</sub> is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted arylalkyl;

g is 0 or 1; and

R<sub>32</sub> is hydrogen, cyano, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxycarbonyl, substituted or unsubstituted alkoxyalkyl, substituted or unsubstituted hydroxyalkyl, substituted or unsubstituted aminocarbonyl, substituted or unsubstituted alkylcarbonyl or substituted or unsubstituted arylalkyl group.

30. (Original) The compound of Claim 8 wherein R<sub>5</sub> is Y-Z, wherein Z is of the formula

## wherein

R<sub>32</sub> is hydrogen, cyano, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxycarbonyl, substituted or unsubstituted alkoxyalkyl,

substituted or unsubstituted hydroxyalkyl, substituted or unsubstituted aminocarbonyl, alkylcarbonyl, substituted or unsubstituted thioalkoxy or substituted or unsubstituted arylalkyl; and

R<sub>33</sub> is hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxycarbonyl, substituted or unsubstituted alkoxyalkyl,

substituted or unsubstituted aminocarbonyl, perhaloalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted alkylcarbonyl or substituted or unsubstituted arylalkyl.

31. (Currently Amended) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>2</sub> is of the formula

wherein

m is 0 or 1;

 $R_{34}$ ,  $R_{35}$ ,  $R_{36}$ ,  $R_{37}$ ,  $R_{38}$ ,  $R_{39}$ ,  $R_{40}$  and  $R_{41}$  are each, independently, methyl or hydrogen; or at least one pair of substituents  $R_{34}$  and  $R_{35}$ ;  $R_{36}$  and  $R_{37}$ ;  $R_{38}$  and  $R_{39}$ ; or  $R_{40}$  and  $R_{41}$  together are an oxygen atom; and

R<sub>42</sub> is H, substituted or unsubstituted azabicycloalkyl or Y-Z, wherein Y is selected from the group consisting of -C(O)-,  $-(CH_2)_p$ -,  $-S(O)_2$ -, -C(O)O-,  $-SO_2NH$ -, -CONH-,  $(CH_2)_qO$ -,  $-(CH_2)_aNH$ -, and  $-(CH_2)_aS(O)_r$ -; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and Z is substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkyl thienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted

or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl\_group; or

R<sub>42</sub> is of the formula

wherein

u is 0 or 1;

R<sub>43</sub>, R<sub>44</sub>, R<sub>45</sub>, R<sub>46</sub>, R<sub>47</sub>, R<sub>48</sub>, R<sub>49</sub> and R<sub>50</sub> are each, independently, methyl or hydrogen; or at least one pair of substituents R<sub>43</sub> and R<sub>44</sub>; R<sub>45</sub> and R<sub>46</sub>; R<sub>47</sub> and R<sub>48</sub>; or R<sub>49</sub> and R<sub>50</sub> together are an oxygen atom; and

 $R_{51}$  is H, substituted or unsubstituted azabicycloalkyl or V-L, wherein V is selected from the group consisting of -C(O)-, -(CH<sub>2</sub>)<sub>p</sub>-,-S(O)<sub>2</sub>-, -C(O)O-,

-SO<sub>2</sub>NH-, -CONH-, (CH<sub>2</sub>)<sub>a</sub>O-, -(CH<sub>2</sub>)<sub>a</sub>NH-, and-(CH<sub>2</sub>)<sub>a</sub>S(O)<sub>r</sub>-; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and L is substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkylthienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or

unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted or unsubstituted quinolinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl.

32. (Currently Amended) The compound of Claim 1 wherein R<sub>3</sub> is H; R<sub>2</sub> is of the formula

## wherein

h, i, j, k and l are independently 0 or 1;

 $R_{52}$ ,  $R_{53}$ ,  $R_{54}$ ,  $R_{55}$ ,  $R_{56}$ ,  $R_{57}$ ,  $R_{58}$ ,  $R_{59}$ ,  $R_g$  and  $R_h$  are each, independently, methyl or hydrogen; or at least one pair of substituents  $R_{52}$  and  $R_{53}$ ;  $R_{54}$  and  $R_{55}$ ;  $R_{56}$  and  $R_{57}$ ; or  $R_{58}$  and  $R_{59}$  together are an oxygen atom; and

 $R_{60}$  is H, substituted or unsubstituted azabicycloalkyl or Y-Z, wherein Y is selected from the group consisting of -C(O)-, -(CH<sub>2</sub>)<sub>p</sub>-,-S(O)<sub>2</sub>-, -C(O)O-,

-SO<sub>2</sub>NH-, -CONH-, (CH<sub>2</sub>)<sub>q</sub>O-, -(CH<sub>2</sub>)<sub>q</sub>NH-, and-(CH<sub>2</sub>)<sub>q</sub>S(O)<sub>r</sub>-; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and Z is substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted or unsubstituted or unsubstituted heteroaryl or substituted or unsubstituted heteroayloglakylthienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or

> unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolyl alkyl, substituted or unsubstituted pyrimdinyl alkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl; or

 $R_{60}$  is of the formula

wherein

v is 0 or 1;

 $R_{61}$ ,  $R_{62}$ ,  $R_{63}$ ,  $R_{64}$ ,  $R_{65}$ ,  $R_{66}$ ,  $R_{67}$  and  $R_{68}$  are each, independently, lower alkyl or hydrogen; or at least one pair of substituents  $R_{61}$  and  $R_{62}$ ;  $R_{63}$  and  $R_{64}$ ;  $R_{65}$  and  $R_{66}$ ; and  $R_{67}$  and  $R_{68}$  together are an oxygen atom; and

 $R_{69}$  is H, substituted or unsubstituted azabicycloalkyl or V-l, wherein V is selected from the group consisting of -C(O)-, -(CH<sub>2</sub>)<sub>p</sub>-,-S(O)<sub>2</sub>-, -C(O)O-,

-SO<sub>2</sub>NH-, -CONH-,  $(CH_2)_qO$ -, - $(CH_2)_qNH$ -, and- $(CH_2)_qS(O)_r$ -; wherein p is an integer from 0 to 6, q is an integer from 0 to 6, and r is 0, 1 or 2; and L is substituted or

> unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl or substituted or unsubstituted heterocycloalkyllthienylalkyl, substituted or unsubstituted pyridylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted isoxazolylalkyl, substituted or unsubstituted thiadiazolylalkyl, substituted or unsubstituted oxadiazolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted furanylalkyl, substituted or unsubstituted pyrrolylalkyl, substituted or unsubstituted imidazolylalkyl, substituted or unsubstituted pyrazolylalkyl, substituted or unsubstituted triazolylalkyl, substituted or unsubstituted pyrimdinylalkyl, substituted or unsubstituted pyrazinylalkyl, substituted or unsubstituted thiazolylalkyl, substituted or unsubstituted isothiazolylalkyl, substituted or unsubstituted oxazolylalkyl, substituted or unsubstituted tetrazolylalkyl, substituted or unsubstituted benzo[b]thienylalkyl, substituted or unsubstituted benzimidazolylalkyl, substituted or unsubstituted benzoxazolylalkyl, substituted or unsubstituted benzothiazolylalkyl, substituted or unsubstituted benzothiadiazolylalkyl, substituted or unsubstituted benzodiazolylalkyl, substituted or unsubstituted indolylalkyl, substituted or unsubstituted tetrahydroindolylalkyl, substituted or unsubstituted azaindolylalkyl, substituted or unsubstituted indazolylalkyl, substituted or unsubstituted quinolinylalkyl, substituted or unsubstituted imidazopyridinylalkyl, substituted or unsubstituted quinazoline purinylalkyl, substituted or unsubstituted pyrrolo[2,3-d]pyrimidinylalkyl or substituted or unsubstituted pyrazolo[3,4-d]pyrimidinylalkyl.

- 33. (Previously Amended) A method of inhibiting one or more protein kinase activity in a patient comprising administering a therapeutically effective amount of a compound of Claim 1 or a physiologically acceptable salt thereof to said patient.
- 34. (Original) The method of Claim 33 wherein said protein kinase is selected from the group consisting of KDR, FGFR-1, PDGFRβ, PDGFRα, IGF-1R, c-Met, Flt-1, Flt-4, TIE-2, TIE-1, Lck, Src, fyn, Lyn, Blk, hck, fgr and yes.
- 35. (Previously Amended) A method of affecting thyroid hyperplasia, Grave's disease, cyst, hypervascularity of ovarian stroma characteristic of polycystic ovarian syndrome and polycystic kidney disease in a patient comprising administering a therapeutically effective amount of a compound of Claim 1 or a physiologically acceptable salt thereof to said patient.

- 36. (Cancelled) A method of affecting angiogenesis in a patient comprising administering a therapeutically effective amount of a compound of Claim 1 or a physiologically acceptable salt thereof to said patient.
- 37. (Original) The method of Claim 33 wherein the protein kinase is a protein serine/threonine kinase or a protein tyrosine kinase.
- 38. (Previously Amended) A method of treating one or more ulcers in a patient comprising administering a therapeutically effective amount of a compound of Claim 1 or a physiologically acceptable salt thereof to said patient.
- 39. (Original) The method of Claim 38 wherein the ulcer or ulcers are caused by a bacterial or fungal infection; or the ulcer or ulcers are Mooren ulcers; or the ulcer or ulcers are a symptom of ulcerative colitis.
- 40. (Currently Amended) A method of treating a condition in a patient comprising administering a therapeutically effective amount of a compound of Claim 1 or a physiologically acceptable salt thereof to said patient, wherein said condition is an ocular condition, Crow-Fukase (POEMS) syndrome, a diabetic condition, sickle cell anaemia, chronic inflammation, systemic lupus, glomerulonephritis, synovitis, inflammatory bowel disease, Crohn's disease, glomerulonephritis, rheumatoid arthritis, osteoarthritis, multiple sclerosis, graft rejection, Lyme disease, sepsis, von Hippel Lindau disease, pemphigoid, psoriasis, Paget's disease, polycystic kidney disease, fibrosis, sarcoidosis, cirrhosis, thyroiditis, hyperviscosity syndrome, Osler-Weber-Rendu disease, chronic occlusive pulmonary disease, asthma or edema following burns, trauma, radiation, stroke, hypoxia, ischemia, ovarian hyperstimulation syndrome, preeclampsia, menometrorrhagia, endometriosis, or infection by Herpes simplex, Herpes Zoster, human immunodeficiency virus, parapox virus, protozoa, toxoplasmosis, a solid tumor, a sarcoma, fibrosarcoma, osteoma, melanoma, retinoblastoma, a rhabdomyosarcoma, glioblastoma, neuroblastoma, teratocarcinoma, an hematopoietic malignancy, Kaposi's sarcoma, Hodgkin's disease, lymphoma, myeloma, leukaemia, malignant ascites, atherosclerosis, restenosis, ischemia/reperfusion injury, vascular occlusion, carotid obstructive disease, ocular or macular edema, ocular neovascular disease, scleritis, radial keratotomy, uveitis, vitritis, myopia, optic pits, chronic retinal detachment, post-laser treatment complications, conjunctivitis, Stargardt's disease, Eales disease, retinopathy or macular degeneration.

## 41. (Cancelled)

- 42. (Cancelled)
- 43. (Cancelled)
- 44. (Original) The method of Claim 40 wherein the diabetic condition is insulin-dependent diabetes mellitus glaucoma, diabetic retinopathy or microangiopathy.
- 45. (Previously Amended) A method of decreasing fertility in a patient, said method comprising the step of administering to the patient an effective amount of a compound of Claim 1 or a physiologically acceptable salt thereof.
- 46. (Currently Amended) The method of Claim 36 wherein the compound or a physiologically acceptable salt thereof is administered in an amount effective to promote angiogenesis or vasculogenesis.
- 47. (Original) The method of Claim 34 wherein the protein kinase is Tie-2.
- 48. (Previously Amended) The method of Claim 46 wherein the compound of Formula I, or physiologically acceptable salt thereof, is administered in combination with a proangiogenic growth factor.
- 49. (Original) The method of Claim 48 wherein the pro-angiogenic growth factor is selected from the group consisting of VEGF, VEGF-B, VEGF-C, VEGF-D, VEGF-E, HGF, FGF-1, FGF-2, derivatives thereof and antiiodotypic antibodies.
- 50. (Original) The method of Claim 46 wherein the patient is suffering from anemia, ischemia, infarct, transplant rejection, a wound, gangrene or necrosis.
- 51. (Original) The method of Claim 33 wherein the protein kinase activity is involved in T cell activation, B cell activation, mast cell degranulation, monocyte activation, the potentiation of an inflammatory response or a combination thereof.
- 52. (Currently Amended) A compound according to Claim 1, wherein  $R_3$  is H;  $R_2 \text{ is } \text{-}Z^{101}\text{-}Z^{102} \text{ where } Z^{101} \text{ is a covalent bond, } \text{-}(C_1\text{-}C_6)\text{--}, \text{-}(C_1\text{-}C_6)\text{--}O\text{--}, \text{-}(C_1\text{--}C_6)\text{--}C(O)\text{--}, \text{-}}(C_1\text{--}C_6)\text{--}C(O)\text{--}NH\text{--}, \text{-}(C_1\text{--}C_6)\text{--}C(O)\text{--}N((C_1\text{--}C_6))\text{--} or a substituted phenyl group; and}$

Z<sup>102</sup> is hydrogen, a substituted or unsubstituted alkyl group or a substituted or unsubstituted, saturated or unsubstituted heterocyclic thienyl, substituted or unsubstituted pyridyl, substituted or unsubstituted pyrazolyl, substituted or unsubstituted isoxazolyl, substituted or unsubstituted or unsubstituted

unsubstituted pyrazolyl, substituted or unsubstituted triazolyl, substituted or unsubstituted pyrazinyl, substituted or unsubstituted thiazolyl, substituted or unsubstituted isothiazolyl, substituted or unsubstituted benzolyl, substituted or unsubstituted benzolyl, substituted or unsubstituted benzoxazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiazolyl, substituted or unsubstituted benzothiadiazolyl, substituted or unsubstituted indolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted azaindolyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted indazolyl, substituted or unsubstituted quinolinyl, substituted or unsubstituted or unsu

53. (Original) A compound according to Claim 52, wherein Z<sup>101</sup> is selected from the group consisting of -CH<sub>2</sub>-C(O)O-, -CH<sub>2</sub>-C(O)-, -CH<sub>2</sub>-C(O)-NH-, -CH<sub>2</sub>-C(O)-N(Me)-, -CH(Me)-C(O)O-, -(CH<sub>2</sub>)<sub>3</sub>-C(O)O-, -CH(Me)-C(O)-NH-, and -(CH<sub>2</sub>)<sub>3</sub>-C(O)-NH-;

Z<sup>102</sup> is selected from the group consisting of hydrogen, methyl, ethyl, N,N-dimethylaminoethyl, N,N-diethylaminoethyl, 2-phenyl-2-hydroxyethyl, morpholino, piperazinyl, N-methylpiperazinyl and 2-hydroxymethylpyrrolidinyl.

54. (Original) A compound according to Claim 53, wherein 
$$R_1$$
 is

substituted or unsubstituted benzoxazolyl or a substituted or unsubstituted benzthiazolyl.

55. (Original) A compound according to Claim 8, 9, 10 or 53, wherein  $R_1$  is

$$\begin{array}{c|c} R_a & \\ N & \\ N$$

where there is only one R<sub>a</sub> and it is H or F.

- 56. (Original) A compound according to Claim 52, wherein  $Z^{101}$  is a covalent bond; and  $Z^{102}$  is an optionally substituted pyridyl.
- 57. (Original) A compound according to Claim 56, wherein  $R_1$  is

$$- \underbrace{ \begin{array}{c} R_a \\ N \end{array} }_{O} \underbrace{ \begin{array}{c} H \\ N \end{array} }_{O} \underbrace{ \begin{array}{c} R_1 \\ N \end{array} }_{O}$$

58. (Original) A compound according to Claim 1, wherein R<sub>3</sub> is H; R<sub>2</sub> is cyclopentyl; and

$$R_{a}$$
  $Z^{110}A - Z^{111}Z^{100}$ 

59. (Original) A compound according to Claim 58, wherein Z<sup>110</sup> is hydrogen;

A is O; and  $Z^{100}$  is optionally substituted phenyl, furanyl or thienyl, where  $Z^{100}$  is optionally substituted with one or more substituents each independently selected from the group consisting of F, COOH, NO<sub>2</sub>, OMe, -COOMe, OCF<sub>3</sub> and CF<sub>3</sub>.

60. (Original) A compound according to Claim 58, wherein Z<sup>110</sup> is hydrogen;

A is -O-, -O-( $CR_2$ )<sub>n</sub>-C(O)- or -O-( $CR_2$ )<sub>n</sub>-O-;

n for each occurrence is 0 to 3;

 $Z^{100}$  is an optionally substituted group selected from the group consisting of cyclohexyl, phenyl, tetrahydropyranyl, tetrahydrofuranyl, isoxazolyl and piperidinyl; where  $Z^{100}$  is optionally substituted with one or more substituents selected from the group consisting of alkyl, alkoxy, halo, hydroxy and alkoxycarbonyl.

- 61. (Original) A compound according to Claim 58, wherein R<sup>2</sup> is an optionally substituted group selected from the group consisting of cyclobutyl and cyclohexyl.
- 62. (Original) A compound according to Claim 61, wherein R<sup>2</sup> is optionally substituted with one or more substituents selected from the group consisting of hydroxy, alkyl, hydroxyalkyl, carboxyalkyl and phenylalkoxyalkyl.
- 63. (Original) A compound according to Claim 62, wherein R<sub>1</sub> is 4-phenoxyphenyl.
- 64. (Original) A compound according to Claim 6 wherein m is 2; a is 0; R<sub>6</sub> is H; b is 1 or 2; and R<sub>4</sub> and R<sub>5</sub> are each hydrogen.
- 65. (Currently Amended) A compound according to Claim 8, wherein m is 0, 1 or 2; R<sub>6</sub> is hydrogen; R<sub>5</sub> is H or Y-Z; where Y is a covalent bond, -C(O)-,  $-(CH_2)_qO$ -,  $-(CH_2)_q$ -,  $-(CH_2)_qC(O)$ - or  $-C(O)(CH_2)_q$ -, where the alkyl portion of  $-(CH_2)_qO_{-}$ ,  $-(CH_2)_p-$ ,  $-(CH_2)_qC(O)$ - and  $-C(O)(CH_2)_q-$  is optionally substituted by a halogen, hydroxy or an alkyl group; and Z is hydrogen, alkyl, optionally substituted alkyl, alkoxyalkyl, optionally substituted heterocycloalkyl thienylalkyl, optionally substituted pyridylalkyl, optionally substituted pyrazolylalkyl, optionally substituted isoxazolylalkyl, optionally substituted thiadiazolylalkyl, optionally substituted oxadiazolylalkyl, optionally substituted indazolylalkyl, optionally substituted furanylalkyl, optionally substituted pyrrolylalkyl, optionally substituted imidazolylalkyl, optionally substituted pyrazolylalkyl, optionally substituted triazolylalkyl, optionally substituted pyrimdinylalkyl, optionally substituted pyrazinylalkyl, optionally substituted thiazolylalkyl, optionally substituted isothiazolylalkyl, optionally substituted oxazolylalkyl, optionally substituted tetrazolylalkyl, optionally substituted benzo[b]thienylalkyl, optionally substituted benzimidazolylalkyl, optionally substituted benzoxazolylalkyl, optionally substituted benzothiazolylalkyl, optionally substituted benzothiadiazolylalkyl, optionally substituted benzodiazolylalkyl, optionally substituted indolylalkyl, optionally substituted tetrahydroindolylalkyl, optionally substituted azaindolylalkyl, optionally substituted indazolylalkyl, optionally substituted quinolinylalkyl, optionally substituted imidazopyridinylalkyl, optionally substituted quinazoline purinylalkyl, optionally substituted pyrrolo[2,3-d]pyrimidinylalkyl, optionally substituted pyrazolo[3,4-<u>d]pyrimidinylalkyl</u>, optionally substituted heteroaryl, or optionally substituted amino.
- 66. (Original) A compound according to Claim 65, wherein

Z is hydrogen, methyl, ethyl, hydroxymethyl, methoxyethyl, N-methyl-piperidinyl, (t-butoxycarbonyl)(hydroxy)-piperidinyl, hydroxypiperidinyl, (hydroxymethyl)piperdinyl, (hydroxy)(methyl)-piperidinyl, morpholino, (methoxyethyl)piperizinyl, methylpiperizinyl, 4-piperidinylpiperidinyl, imidazolyl, methylimidazolyl, N-methylamino, N,N-dimethylamino, N-isopropylamino, N,N-diethylamino, 2,3-dihydroxypropylamino, 2-hydroxyethylamino, 3-hydroxypropylamino, methoxyethylamino, ethoxycarbonylmethylamino, phenylmethylamino, N-methyl-N-methoxyamino,

$$\text{HN} = 0 \text{N}$$

furanylmethylamino, piperidinylethylamino, N-(2-N,N-

dimethylaminoethyl)-N-methylamino, 2-N,N-dimethylaminoethylamino, N-methyl-N-(N-methylpiperidin-4-yl)amino, 2-morpholino-ethylamino, 3-morpholino-propylamino, 3-imidazolylpropylamino, or 3-(2-oxopyrrolidinyl)propylamino.

67. (Original) A compound according to Claim 8, wherein m is 2; R<sub>5</sub> is Y-Z; Y is -C(O)-; and

$$Z$$
 is  $R$  where n is 0, 1, 2 or 3.

68. (Original) A compound according to Claim 9, wherein R<sub>4</sub> is hydrogen or methyl;

$$R_1$$
 is  $R_2$  is  $R_1$ 

A is selected from the group consisting of O, -N(R)- and -N(R)C(O)-;

 $Z^{111}$  is  $-(CH_2)_n$ -cycloalkyl- $(CH_2)_n$ -;

R is hydrogen or alkyl;

n is 0 to 5;

R<sub>a</sub> is one or more substituents each independently selected from the group consisting of H, OH, F, Cl, methyl and methoxy; and

R<sub>b</sub> is one or more substituents each independently selected from the group consisting of H, CN, F, CF<sub>3</sub>, OCF<sub>3</sub>, methyl, methoxy and an optionally substituted amino group;

where said amino group is optionally substituted with one or two groups each independently selected from the group consisting of alkyl, alkoxyalkyl, phenyl, substituted phenyl, and optionally substituted heteroaryl.

- 69. (Original) A compound according to Claim 68, wherein R<sub>b</sub> is 4-methylphenylthio or 2-pyridinylthio.
- 70. (Original) A compound according to Claim 9, wherein

$$R_a$$
  $A$   $(C_0-C_6)$   $Z^{100}$ 

R<sub>1</sub> is

where  $Z^{100}$  is selected from the group consisting of benzo[b]thiophene, furanyl and thiophene.

- 71. (Original) A compound according to Claim 9C, wherein  $R_a$  is alkoxy; A is -NH-C(O)-; and there is a covalent bond between A and  $Z^{100}$ .
- 72. (Original) A compound according to Claims 1, 8 or 9, wherein

$$R_a$$
 $A$ 
 $C_0$ 
 $C_6$ 
 $Z^{100}$ 

R<sub>1</sub> is

A is selected from the group consisting of -N(R)-C(O)-N(R)-,  $-(CH_2)_n-N(R)C(O)N(R)-$ , -N(R)- and  $-N(R)-SO_2-$ ; R is hydrogen or alkyl;

$$Z^{100}$$
 is  $X$ ,  $X$ ,  $X$ , pyridinyl, thiazolyl, furanyl,

benzofuranyl or oxazolyl;

X is S, O or NR where R for each occurrence is independently H or Me;

R<sub>a</sub> is one or more substituents each independently selected from the group consisting of H and F; and

R<sub>b</sub> is one or more substituents each independently selected from the group consisting of H, F, Cl, Br, NO<sub>2</sub>, CF<sub>3</sub>, alkyl, alkoxy and alkoxycarbonyl.

73. (Original) A compound according to Claim 72, wherein

 $R_4$  is methyl; m is 1, 2 or 3;  $R_5$  is Y-Z, where Y is -C(O)O-, -C(O)- or -C(O)-(CH<sub>2</sub>)<sub>p</sub>-; and Z is aminoalkyl, N-alkylamino, N,N-dialkylamino or hydroxyalkylaminoalkyl.

## 74. (Original) A compound according to Claim 9, wherein

R<sub>4</sub> is methyl; R<sub>1</sub> is

$$\begin{array}{c|c} & H & \\ & N & \\ & O &$$

where n is 0 to 3;  $Z^{100}$  is an optionally substituted

group selected from the group consisting of indolyl, indenyl, methylindenyl, methylindolyl, dimethylaminophenyl, phenyl, cyclohexyl and benzofuranyl.

## 75. (Original) A compound according to claim 9, wherein

$$R_a$$
  $Z^{110}A - Z^{111}Z^{100}$ 

Z<sup>100</sup> is an optionally substituted group selected from the group consisting of phenyl, imidazolyl, indolyl, furanyl, benzofuranyl and 2,3-dihydrobenzofuranyl;

where  $Z^{100}$  is optionally substituted with one or more substituents each independently selected from the group consisting of F, Cl, CN, optionally substituted alkyl, -O-(optionally substituted alkyl), -COOH, - $Z^{105}$ -C(O)N(R)<sub>2</sub>, - $Z^{105}$ -N(R)-C(O)- $Z^{200}$ , - $Z^{105}$ -N(R)-S(O)<sub>2</sub>- $Z^{200}$ , and - $Z^{105}$ -N(R)-C(O)-N(R)- $Z^{200}$ ;  $Z^{105}$  is a covalent bond or (C<sub>1</sub>-C<sub>6</sub>):

 $Z^{200}$  is an optionally substituted group selected from group consisting of  $(C_1-C_6)$ , phenyl and  $-(C_1-C_6)$ -phenyl;

 $Z^{110}$  and  $Z^{111}$  are each independently a covalent bond or (C<sub>1</sub>-C<sub>3</sub>) group optionally substituted with alkyl, hydroxy, COOH, CN or phenyl; and

A is O, -N(R)-C(O)-N(R)-, -N(R)-C(O)-O-, -N(R)- or -N(R)-C(O)-, where R is H or alkyl.

- 76. (Original) A compound according to Claim 75, wherein  $R_4$  is methyl.
- 77. (Original) A compound according to Claim 8, 9 or 10, wherein

$$R_a$$
 $A-Z^{100}$ 

 $R_1$  is where  $Z^{100}$  is an optionally substituted group selected from the group consisting of benzoxazolyl, benzothiazolyl and benzimidazolyl.

- 78. (Original) A compound according to Claim 77, wherein  $R_4$  is methyl; A is -NH-; there is only one  $R_a$  and it is H or F; and  $Z^{100}$  is optionally substituted with one or more substituents each independently selected from the group consisting of alkyl, halo,  $CF_3$ , and alkoxy.
- 79. (Original) A compound according to Claim 9, wherein

$$R_a$$
  $Z^{110}A - Z^{111}Z^{100}$ 

Z<sup>100</sup> is an optionally substituted group selected from the group consisting of phenyl, pyrrolyl, pyridyl, benzimidazolyl, naphthyl and

where  $Z^{100}$  is optionally substituted with one or more substituents each independently selected from the group consisting of F, Cl, Br, NO<sub>2</sub>, amino, N-alkylamino, N,N-dialkylamino, CN, optionally substituted alkyl, -O-(optionally substituted alkyl) and phenyl;

 $Z^{110}$  and  $Z^{111}$  for each occurrence is independently ( $C_0$ - $C_3$ ) optionally substituted with optionally substituted phenyl; and

 $A \ is \ -N(R)-C(O)-N(R)-, \ -N(R)-S(O)_2-, \ -N(R)-C(O)-, \ -N(R)- \ or \ -N(R)-C(O)-O-.$ 

- 80. (Original) A compound according to Claim 79, wherein R<sub>4</sub> is methyl and there is only one R<sub>a</sub> and it is F.
- 81. (Original) A compound according to Claim 9 or 66, wherein

$$R_{a}$$
  $Z^{110}A - Z^{111}Z^{100}$ 

Z<sup>100</sup> is an optionally substituted group selected from the group consisting of phenyl, isoxazolyl, tetrahydronaphthyl, furanyl, benzofuranyl, pyridyl and indolyl;

where  $Z^{100}$  is optionally substituted with one or more substituents each independently selected from the group consisting of F, CN, NO<sub>2</sub>, -C(O)H, -CONH<sub>2</sub>, -NHSO<sub>2</sub>CF<sub>3</sub>, optionally substituted alkyl, optionally substituted heteroaryl and -O-(optionally substituted alkyl);

 $Z^{110}$  and  $Z^{111}$  are each independently optionally substituted (C<sub>0</sub>-C<sub>3</sub>); and A is O, -N(R)-C(O)-(CH<sub>2</sub>)<sub>n</sub>-N(R)-, -C(O)-N(R)-, -N(R)-C(O)-O-, -N(R)-C(O)- or -N(R)-.

- 82. (Original) A compound according to Claim 81, wherein  $R_4$  is methyl;  $R_a$  is H or methoxy; and  $Z^{110}$  and  $Z^{111}$  are each unsubstituted.
- 83. (Original) A compound according to Claim 9, wherein R<sub>1</sub> is

where R is H or lower alkyl and n is for each occurrence is independently 1 to 6.

84. (Original) A compound according to Claim 83, wherein R<sub>1</sub> is

$$\begin{array}{c|c} & H & & \\ & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

- 85. (Original) A compound according to Claim 84, wherein Z<sup>100</sup> is substituted or unsubstituted phenyl.
- 86. (Original) A compound according to Claim 8, 9 or 10, wherein

$$R_a$$
 $A-Z^{100}$ 

 $R_1$  is where  $Z^{100}$  is an optionally substituted group selected from the group consisting of benzoxazolyl, benzothiazolyl and benzimidazolyl.

- 87. (Original) A compound according to Claim 11 wherein n is 2;  $R_6$  is H; m is 1; r is 1; and  $R_4$  and  $R_5$  are each hydrogen.
- 88. (Original) A compound according to claim 64 or 87 wherein R<sub>1</sub> is 4-phenoxyphenyl.